

## Anatomy Chapter 6: Muscular System

- 3 types of muscles – *cardiac*, *skeletal*, and *smooth*
  - Cardiac
    - Only found in the heart
    - Involuntarily controlled
    - Striated, branched, cylindrical cells with intercalated discs
    - Has a single nucleus in each cell
    - Found in the walls of the heart
    - Slow contraction speed
    - Changes the internal volume of the heart as it contracts
  - Skeletal
    - Found attached to bones
    - Voluntarily controlled
    - Striated
    - Has several nuclei per cell
    - Contains long, non-branching cylindrical cells
    - Slow to fast contraction speed
    - Concerned with locomotion of the body as a whole
  - Smooth
    - Found in the walls of the stomach, uterus, and arteries
    - Involuntarily controlled
    - Has a single nucleus in each cell
    - Contains spindle-shaped cells
    - Changes internal volume of an organ as it contracts
    - Very slow contraction speed

